

125. A method according to claim 119, wherein said ions produced from at least two solutions are mixed.

126. A method according to claim 119, wherein said ions are Electrosprayed using a microtip.

127. A method for analyzing chemical species comprising:

- a. utilizing an ion source, at least two probes configured in said ion source, and a mass analyzer;
- b. operating said ion source at substantially atmospheric pressure;
- c. introducing at least two solutions into said ion source through at least two probes;
- d. producing ions from at least two said solutions introduced through said at least two probes;
- e. producing ions from at least one of said solutions utilizing Electrospray ionization;
- f. mixing said ions produced; and
- g. mass analyzing said mixture of ions produced with said mass analyzer.

128. A method according to claim 127, wherein said ions are produced using Electrospray ionization with nebulization assist.

129. A method according to claim 127, wherein said Electrospray ionization uses bath gas flow to aid in drying Electrosprayed charged droplets.

130. A method according to claim 127, wherein at least two of said solutions are introduced into said ion source through at least one of said probes through concentric tubes.

131. A method according to claim 127, wherein said ions are mass analyzed using a Time-Of-Flight mass spectrometer.

132. A method according to claim 127, wherein said ions are mass analyzed using a Quadrupole mass spectrometer.

133. A method according to claim 127, wherein said ions are mass analyzed using an Ion Trap mass spectrometer.

134. A method according to claim 127, wherein said ions are mass analyzed using a Fourier Transform mass spectrometer.

135. A method according to claim 127, wherein said ions are mass analyzed using a Magnetic Sector mass spectrometer.

136. A method according to claim 127, wherein said ions are mass analyzed using a hybrid mass spectrometer.

137. A method according to claim 128, wherein said ions are Electrosprayed using a microtip.

138. A method for analyzing chemical species comprising:

- a. utilizing an ion source, at least two probes configured in said ion source, and a mass analyzer;
- b. introducing at least two solutions into said ion source through at least two probes;
- c. producing ions from at least two said solutions introduced through said at least two probes;
- d. producing ions from at least one of said solutions utilizing Atmospheric Pressure Chemical Ionization;
- e. mass analyzing said mixture of ions produced with said mass analyzer.

139. A method according to claim 138, wherein said ions are produced using Electrospray ionization.

140. A method according to claim 138, wherein said ions are produced using Electrospray ionization with nebulization assist.

141. A method according to claim 138, wherein said ions are mass analyzed using a Time-Of-Flight mass spectrometer.

142. A method according to claim 138, wherein said ions are mass analyzed using a Quadrupole mass spectrometer.

143. A method according to claim 138, wherein said ions are mass analyzed using an Ion Trap mass spectrometer.

144. A method according to claim 138, wherein said ions are mass analyzed using a Fourier Transform mass spectrometer.

145. A method according to claim 138, wherein said ions are mass analyzed using a Magnetic Sector mass spectrometer.

146. A method according to claim 138, wherein said ions are mass analyzed using a hybrid mass spectrometer.

147. A method for analyzing chemical species comprising:

- a. utilizing an ion source, at least two probes configured in said ion source, and a mass analyzer;
- b. introducing at least two solutions into said ion source through at least two probes;
- c. producing ions from at least two said solutions introduced through said at least two probes
- d. producing ions from at least one of said solutions introduced through at least one of said probes utilizing Electrospray ionization;
- e. producing ions from at least one of said solutions introduced through at least one or said probes utilizing Atmospheric Pressure Chemical Ionization; and
- e. analyzing said ions produced with said mass analyzer.

148. A method according to claim 147, wherein said ions are produced using Electrospray ionization with nebulization assist.

149. A method according to claim 147, wherein at least two of said solutions are introduced into said ion source through at least one of said probes through concentric tubes.

150. A method according to claim 147, wherein said ions are mass analyzed using a Time-Of-Flight mass spectrometer.

151. A method according to claim 147, wherein said ions are mass analyzed using a Quadrupole mass spectrometer.

152. A method according to claim 147, wherein said ions are mass analyzed using an Ion Trap mass spectrometer.

153. A method according to claim 147, wherein said ions are mass analyzed using a Fourier Transform mass spectrometer.

154. A method according to claim 147, wherein said ions are mass analyzed using a Magnetic Sector mass spectrometer.

155. A method according to claim 147, wherein said ions are mass analyzed using a hybrid mass spectrometer.

156. A method for analyzing chemical species comprising:

- a. utilizing an ion source operating substantially at atmospheric pressure, at least two probes configured in said ion source, and a mass analyzer;